

**ABSTRACT**

- [1093] Techniques for providing secure processing and data storage for a wireless communication device. In one specific design, a remote terminal includes a data processing unit, a main processor, and a secure unit. The data processing unit processes
- 5 data for a communication over a wireless link. The main processor provides control for the remote terminal. The secure unit includes a secure processor that performs the secure processing for the remote terminal (e.g., using public-key cryptography) and a memory that provides secure storage of data (e.g., electronics funds, personal data, certificates, and so on). The secure processor may include an embedded ROM that
- 10 stores program instructions and parameters used for the secure processing. For enhanced security, the secure processor and memory may be implemented within a single integrated circuit. Messaging and data may be exchanged with the secure unit via a single entry point provided by a bus.